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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/519,593	03/10/2005	Kaoru Inoue	232444	2622	
23460	7590 10/18/2006		EXAMINER		
	OIT & MAYER, LTD	RAZA, SAIRA B			
	ENTIAL PLAZA, SUITE	ART UNIT	PAPER NUMBER		
	IL 60601-6780	1711			
		DATE MAILED: 10/18/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No	Applicant(s)	 _ [
Office Action Summary				INOUE ET AL.				
		10/519,593 Examiner		Art Unit				
	•			1711				
	The MAILING DATE of this communication	Saira Raza	over sheet with the c		Idress			
Period fo								
WHIC - Exter after - If NO - Failu Any (CRTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILIN isions of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the part of the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS CFR 1.136(a). In no event ion. period will apply and will e y statute, cause the applica	COMMUNICATION however, may a reply be tin expire SIX (6) MONTHS from tion to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on	01 August 2006						
		This action is nor	ı-final.					
· —								
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.							
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-9</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election req	uirement.					
Applicati	on Papers		•					
9) 🗌	The specification is objected to by the Exa	aminer.						
10)	The drawing(s) filed on is/are: a)[accepted or b)	objected to by the	Examiner.	•			
	Applicant may not request that any objection	to the drawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the o	correction is required	if the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected to by t	the Examiner. Note	the attached Office	Action or form P1	ГО-152.			
Priority u	nder 35 U.S.C. § 119							
· -	Acknowledgment is made of a claim for fo ☐ All b) ☐ Some * c) ☐ None of:)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority docu				Chara			
	3. Copies of the certified copies of the	· ·		ed in this National	Stage			
* 0	application from the International E ee the attached detailed Office action for	· •		ad				
	ee the attached detailed Office action for	a list of the certifie	d copies not receive	· · · · · · · · · · · · · · · · · · ·				
Attachmen	rie)							
_	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-94	48)	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date)	atent Application				

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/1/2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama et al. (US 5,153,038) in view of Rooney (US 5,958,254).
- 4. Koyama discloses plastic containers comprising a barrier layer containing an oxygen scavenger and two outer layers of thermoplastic resin (abstract; col. 2 lines 55-68). The gas barrier resin is preferably ethylene-vinyl alcohol (EVOH) and contains 1-1000%, preferably 5-200% by weight of the oxygen scavenger (col. 7 lines 17-46). The outer layers preferably contain polyolefins (col. 8 line 63-col. 9 line 12). However, the reference does not disclose the applicant's claimed anthraquinone component. Rooney teaches multilayer films, wherein it is preferable that an outer layer is an oxygen barrier film, so that the film may be used in a manner such that only the layer(s) containing the reducible organic compound is exposed to molecular oxygen from the atmosphere or

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liquid for which a reduction in molecular oxygen concentration is required (col. 5, lines 35-45). Suitable reducible organic compounds include preferably, 9,10-anthraquinone, specifically in the case of 9,10-anthraquinone substitution occurs preferably at the 2, 3, 6 or 7 positions (col. 2, lines 60-61; col. 4, lines 14-19). This component is noted by the applicant as having the claimed percent weight loss, placement of substitution, and solubility. Thus, it would have been prima facie obvious to use the anthraquinone to provide indicative oxygen sensitive dyes for the Koyama packaging.

- 5. Claims 5-6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koyama et al. (US 5,153,038) in view of Rooney (US 5,958,254) as applied to the claims above, and further in view of Nippon Synthetic.
- 6. The references apply as above, failing to teach the inclusion of an acid component and failing to specify the water content of the EVOH. Koyama does teach the method of melt mixing the components and extruding them (col. 9 lines 55-68). Nippon Synthetic teaches extruded EVOH materials comprising an EVOH polymer and small amounts of acid components, where the water content reaches up to 50% (abstract). The materials have improved transparency, gas barrier properties, and film appearance in a continuous process. Thus, it would have been prima facie obvious to include any amount of acid and to choose any water content sufficient to optimize transparency, gas barrier properties, and appearance in the continuous process taught by the combination of Koyama and Rooney above.
- 7. In response to applicants arguments, that motivation does not exist to combine the teachings of Nippon Synthetic with Koyama and Rooney, it is noted that Nippon Synthetic provides significant motivation for one of ordinary skill in the art to have considered it logical to anticipated with a high degree of probability that a trial of the combination would have been successful.

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Wherein, only a reasonable expectation of success, not absolute predictability is necessary for

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obviousness. In re Longi, 759F.2d 887, 897, 225 USPQ 645, 651-52 (Fed. Cir. 1985).

Response to Arguments

8. Applicant's arguments with respect to the claims have been considered but are moot in view

of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Saira Raza whose telephone number is (571) 272-3553. The examiner can

normally be reached on Monday-Friday from 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

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assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Supervisory Patent Examiner

Technology Center 1700